

FIG. 1

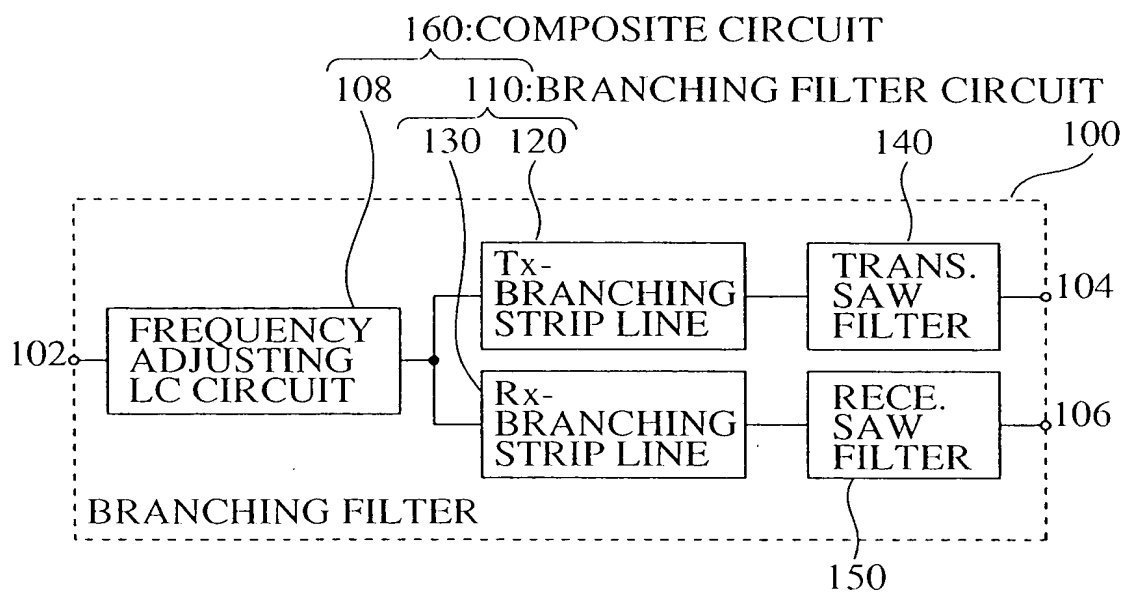


FIG. 2

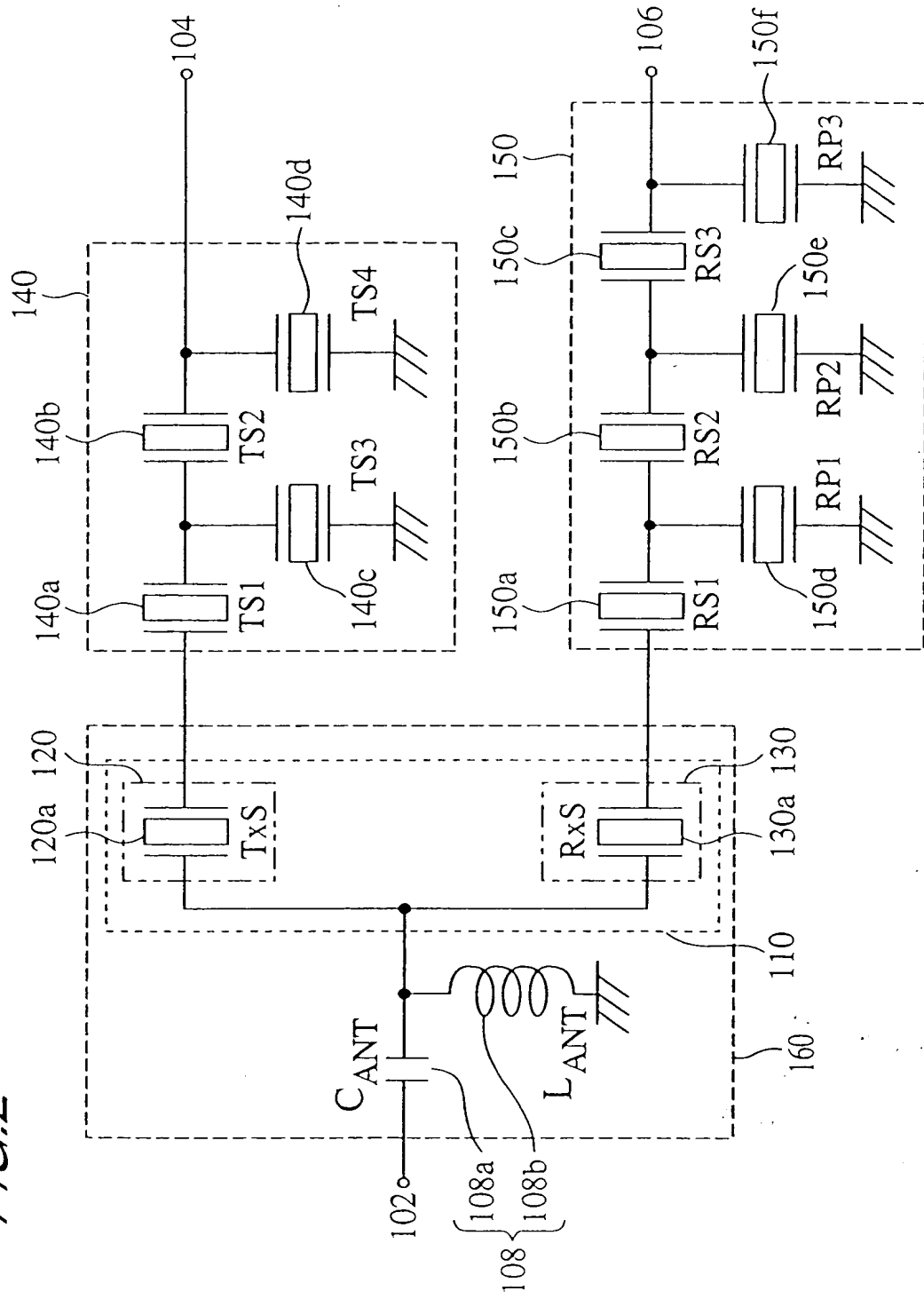


FIG. 3

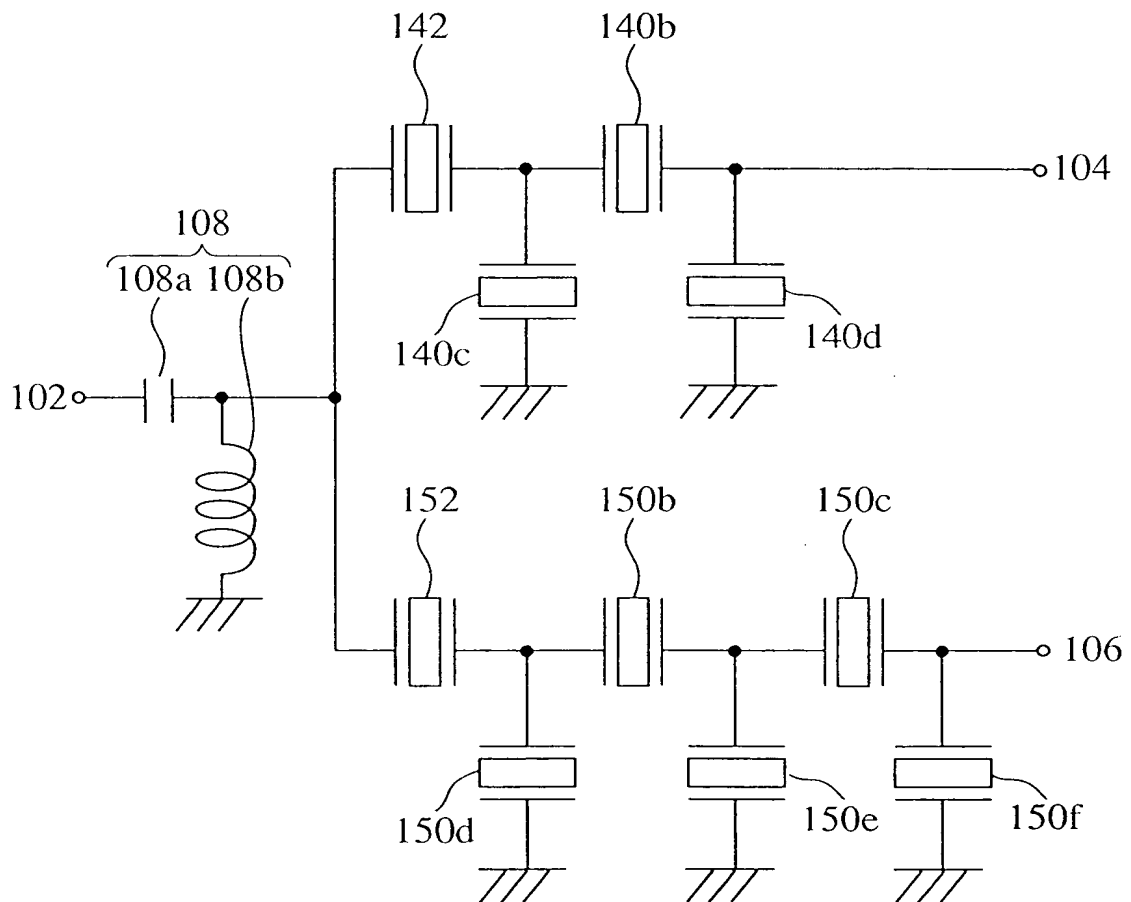


FIG. 4(A)

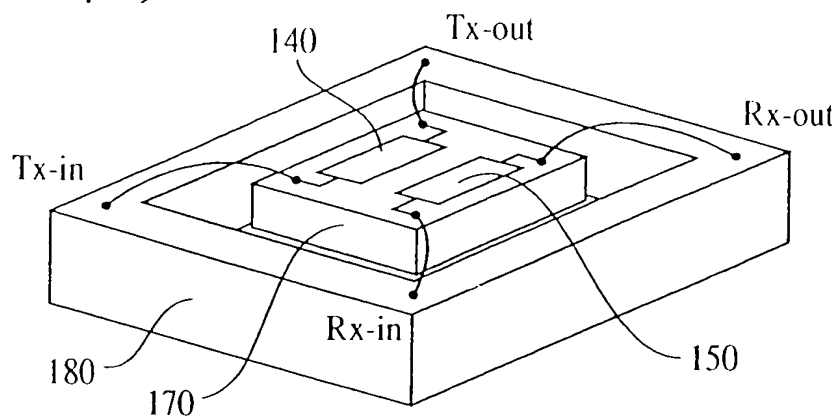


FIG. 4(B)

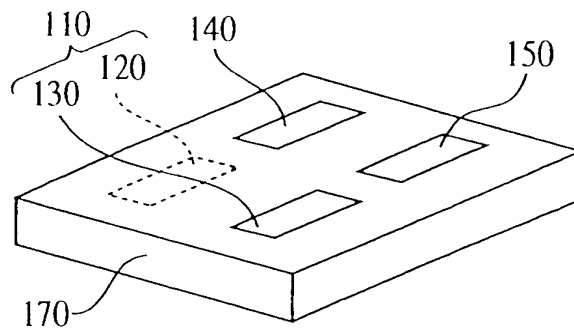


FIG. 4(C)

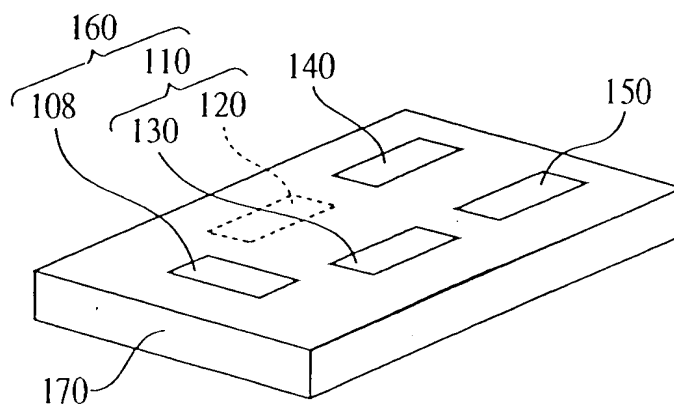


FIG. 5

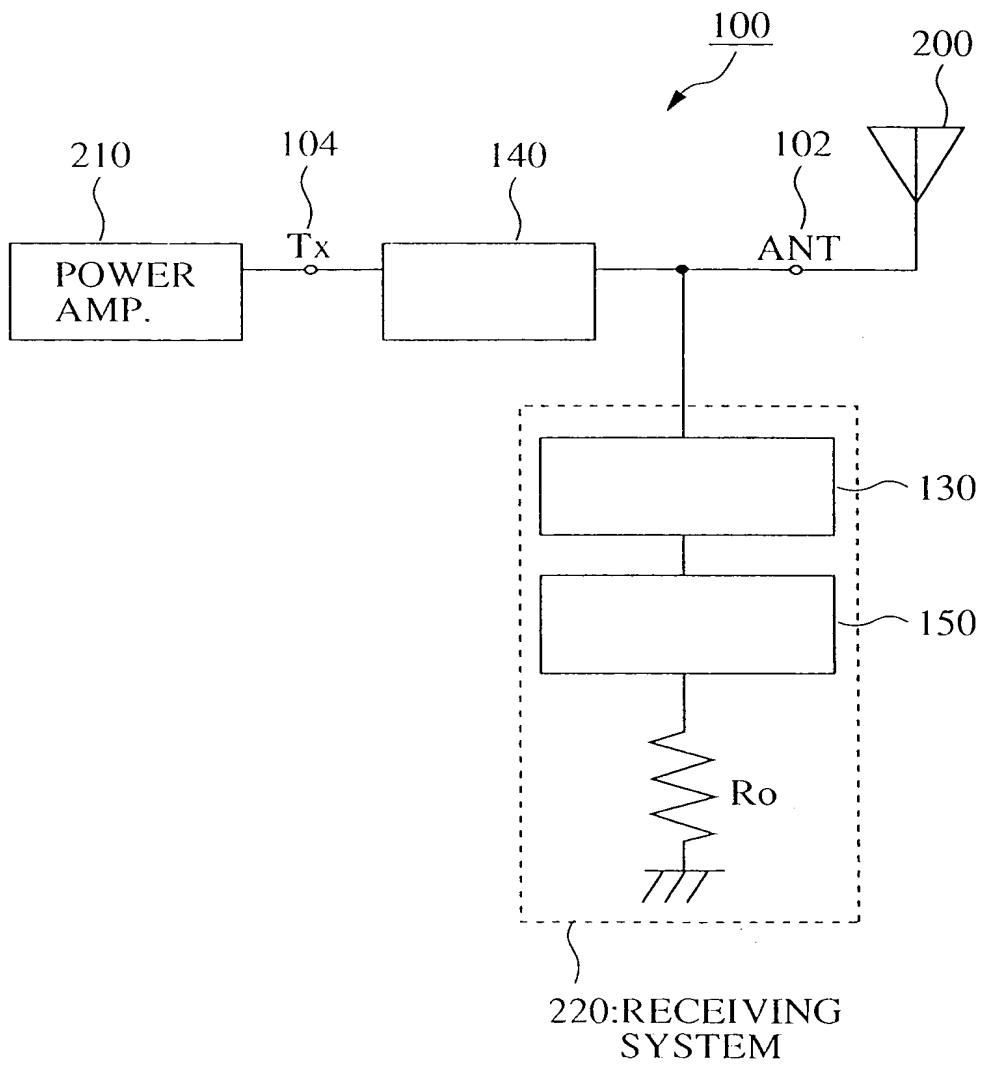


FIG. 6

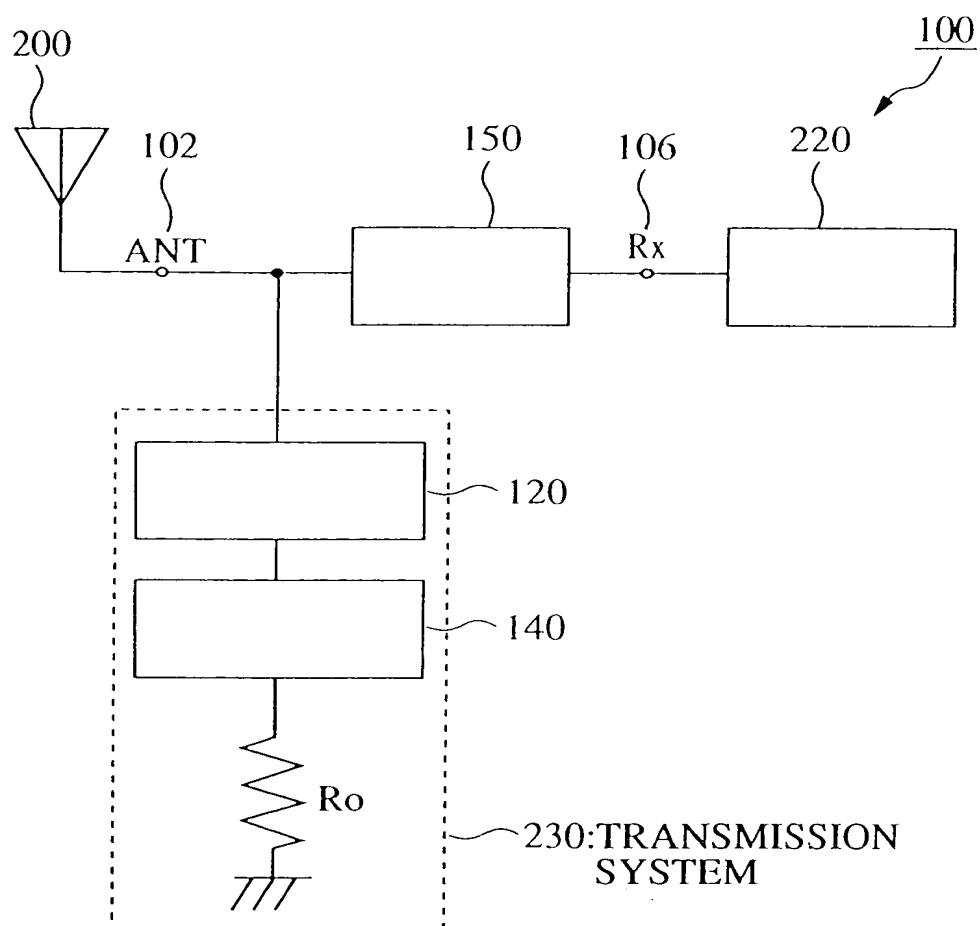


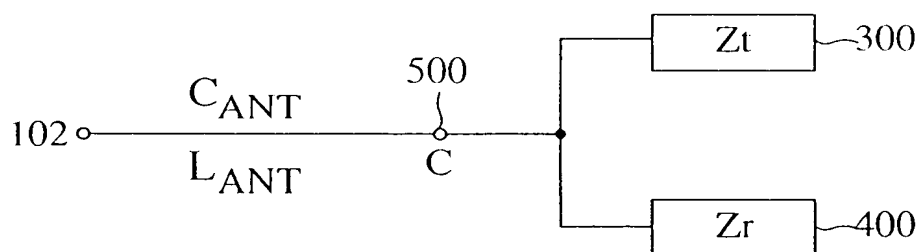
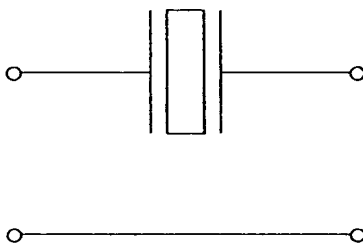
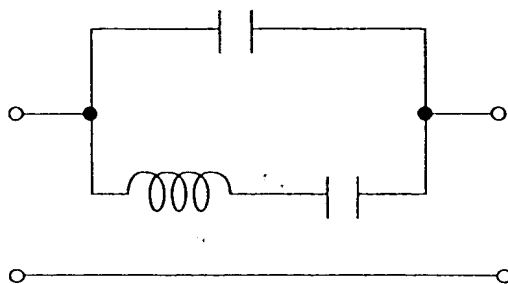
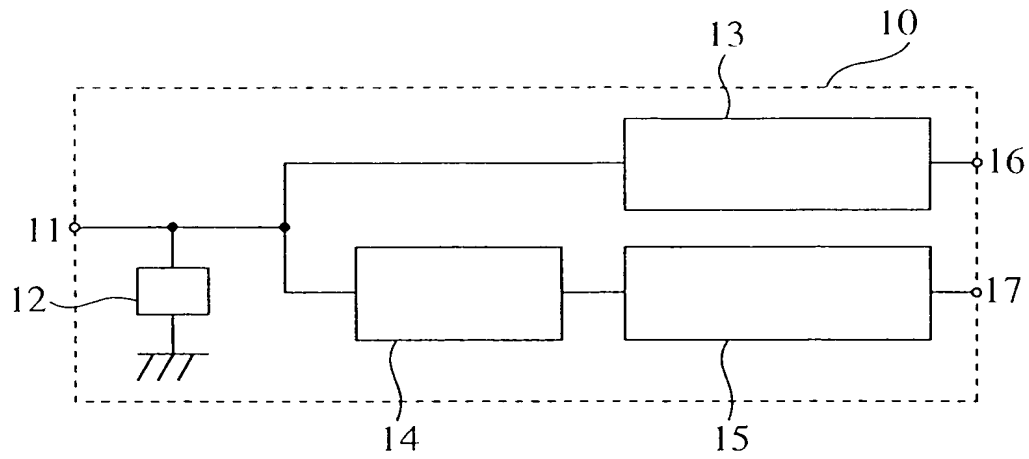
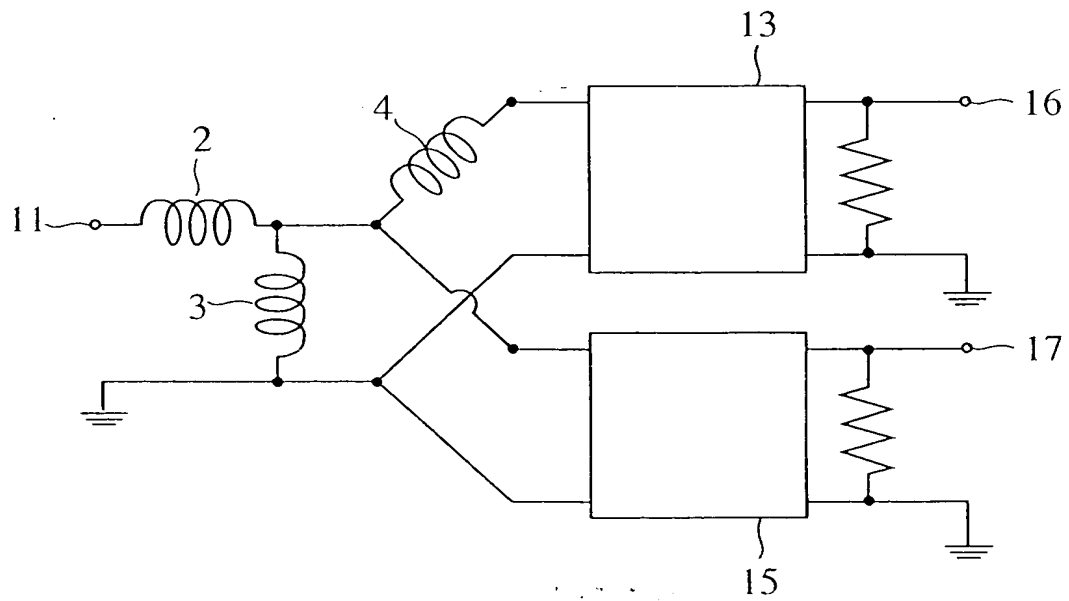
FIG. 7*FIG. 8(A)**FIG. 8(B)*

FIG. 9



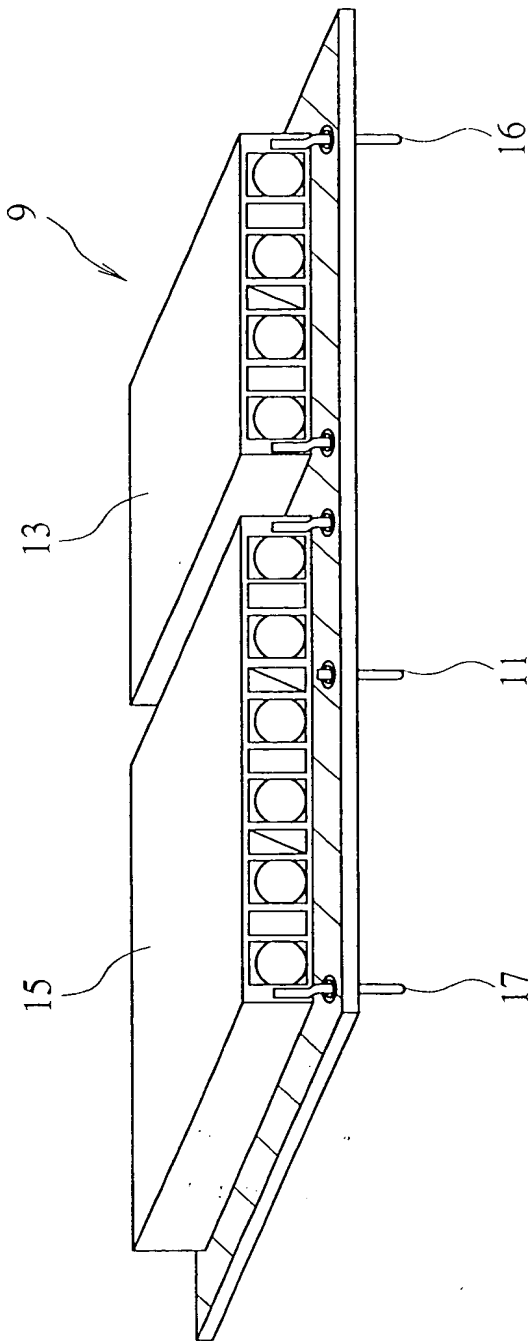
PRIOR ART

FIG. 10



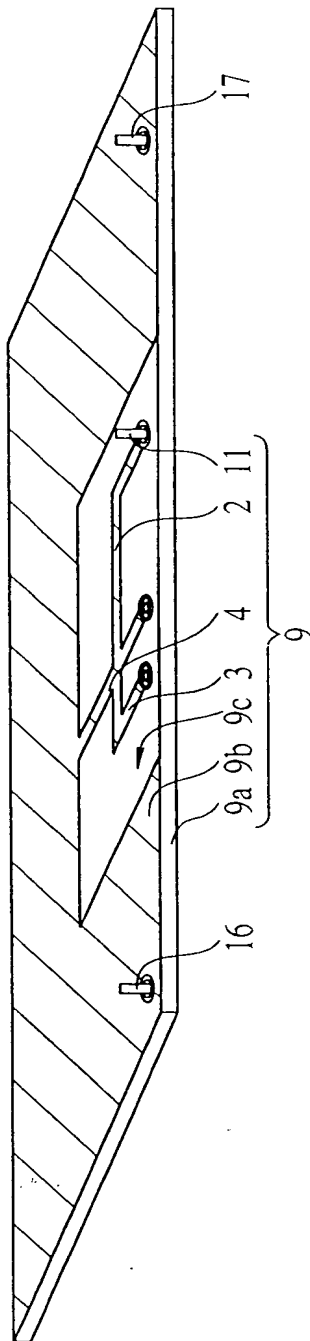
PRIOR ART

FIG. 11

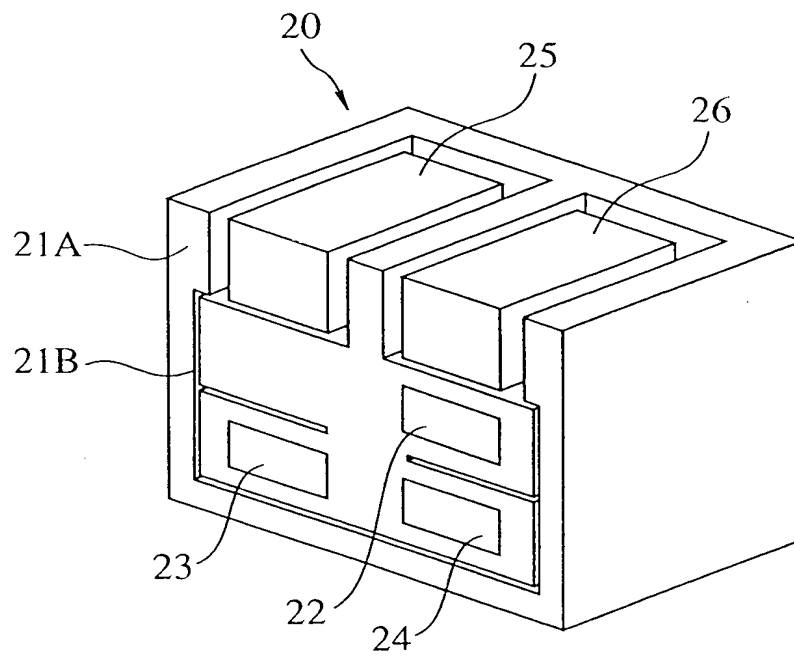


PRIOR ART

FIG. 12



PRIOR ART

FIG. 13

PRIOR ART

TABLE 1

TRANSMISSION FILTER		TS1		TS2		TS3		TS4	
		D(μ m)	M	D(μ m)	M	D(μ m)	M	D(μ m)	M
		85	90	42.5	90	84	86	60	60
RECEIVING FILTER		RxS		RS1		RS2		RS3	
		D(μ m)	M	D(μ m)	M	D(μ m)	M	D(μ m)	M
		124	90	124	90	62	90	62	90
PARAL- LEL ARM				RP1		RP2		RP3	
				D(μ m)	M	D(μ m)	M	D(μ m)	M
				102	120	102	120	76	80

TABLE 2

	BRANCHING FILTER CIRCUIT FREQUENCY ADJUSTING LC ELEMENT		TRANSMISSION FILTER				RECEIVING FILTER			
	LT=0 (mm)	LR=40 (mm)	1.22	1.17	35.7	36.8	31.6	58.5	3.11	3.04
I	LT=0 (mm)	LR=0 (mm)	3.56	3.21	37.9	28.6	33.0	55.6	3.11	2.32
II	LT _{ANT} = 7 (nH)	C _{ANT} = 7 (pF)	1.28	1.28	36.6	35.0	34.1	59.0	3.28	3.20
III	LT _{ANT} = 7 (nH)		1.30	1.32	34.7	33.2	35.1	58.5	3.74	4.0
IV	LT _{ANT} = 10 (nH)		1.37	1.08	36.1	29.2	35.5	54.7	3.10	3.70

TABLE 3

		TRANSMISSION FILTER						RECEIVING FILTER					
		FREQUENCY (MHz)	890	900	915	935	960	890	900	915	935	960	
II	REAL NUMBER	1.283	0.8627	1.345	2.313	0.0831	0.0127	0.0175	0.0320	0.606	0.7414		
	IMAGINARY NUMBER	-0.816	-0.6256	0.5287	0.8715	-4.017	-1.098	-0.934	-0.654	-0.017	1.263		
IV	REAL NUMBER	1.283	0.8627	1.345	2.313	0.0831	3.540	4.7507	0.435	0.875	0.2421		
	IMAGINARY NUMBER	-0.816	-0.6256	0.5287	0.8715	-4.017	23.20			0.0479	1.150		